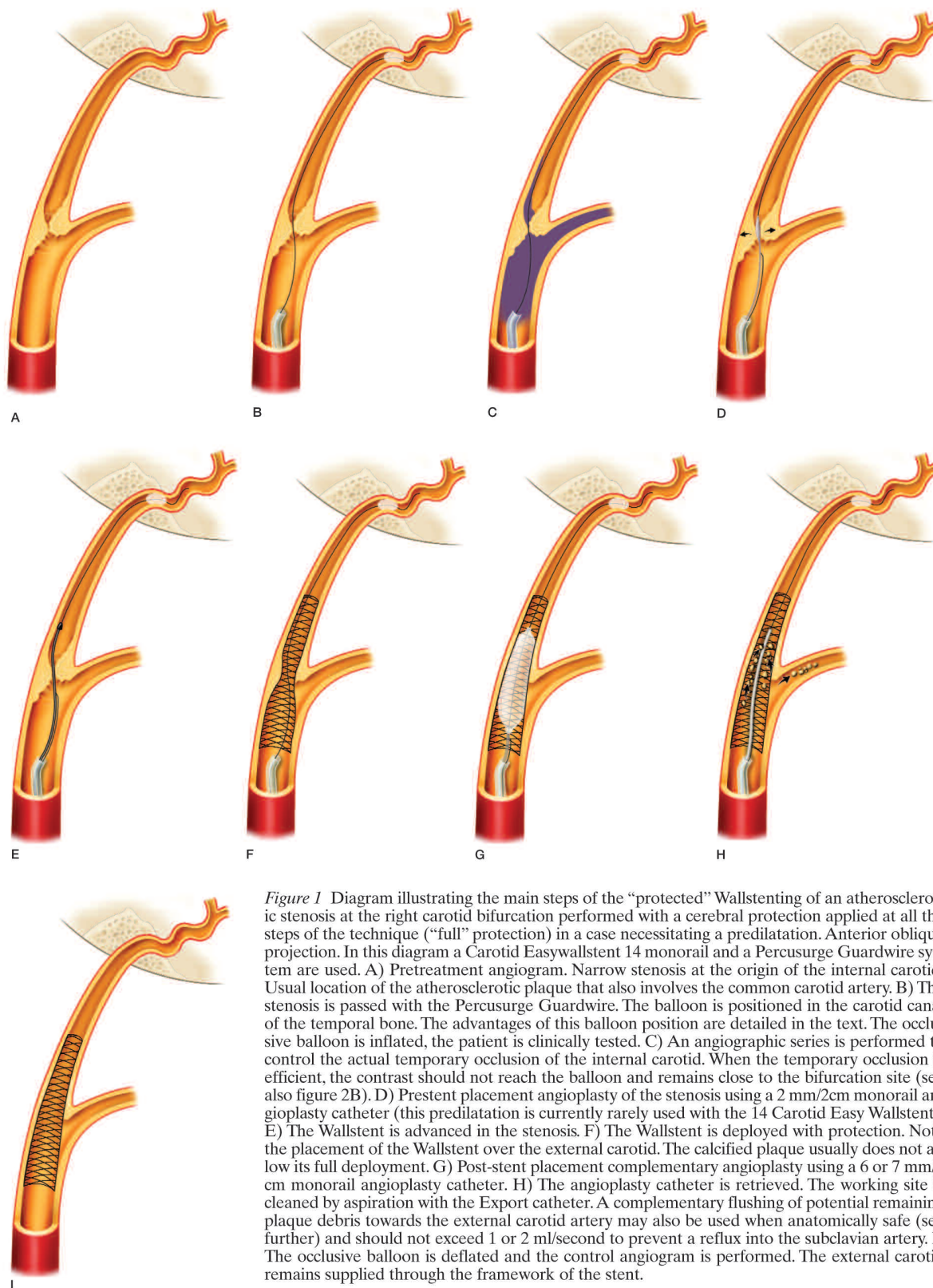


ERRATA CORRIGE Int. Neur. 9: 99-126: "Protected" Wallstenting of Atherosclerotic Stenoses at the Carotid Bifurcation J.G. Théron



**Figure 1** Diagram illustrating the main steps of the "protected" Wallstenting of an atherosclerotic stenosis at the right carotid bifurcation performed with a cerebral protection applied at all the steps of the technique ("full" protection) in a case necessitating a predilatation. Anterior oblique projection. In this diagram a Carotid Easywallstent 14 monorail and a Percutaneous Guardwire system are used. A) Pretreatment angiogram. Narrow stenosis at the origin of the internal carotid. Usual location of the atherosclerotic plaque that also involves the common carotid artery. B) The stenosis is passed with the Percutaneous Guardwire. The balloon is positioned in the carotid canal of the temporal bone. The advantages of this balloon position are detailed in the text. The occlusive balloon is inflated, the patient is clinically tested. C) An angiographic series is performed to control the actual temporary occlusion of the internal carotid. When the temporary occlusion is efficient, the contrast should not reach the balloon and remains close to the bifurcation site (see also figure 2B). D) Pre-stent placement angioplasty of the stenosis using a 2 mm/2cm monorail angioplasty catheter (this predilatation is currently rarely used with the 14 Carotid Easy Wallstent). E) The Wallstent is advanced in the stenosis. F) The Wallstent is deployed with protection. Note the placement of the Wallstent over the external carotid. The calcified plaque usually does not allow its full deployment. G) Post-stent placement complementary angioplasty using a 6 or 7 mm/2 cm monorail angioplasty catheter. H) The angioplasty catheter is retrieved. The working site is cleaned by aspiration with the Export catheter. A complementary flushing of potential remaining plaque debris towards the external carotid artery may also be used when anatomically safe (see further) and should not exceed 1 or 2 ml/second to prevent a reflux into the subclavian artery. I) The occlusive balloon is deflated and the control angiogram is performed. The external carotid remains supplied through the framework of the stent.

